CANCER REGISTRY

CANCER INCIDENCE 1995 SRI LANKA



NATIONAL CANCER CONTROL PROGRAMME

CANCER INSTITUTE MAHARAGAMA SRI LANKA

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Cancer registry provides individual core data, tabulations, statistical analysis etc. The design, statistical analysis and related computer work of this publication were primarily done by Mr. MGW Suraweera, Bio-Statistician attached to the National Cancer Control Programme under the Supervision of the Director.



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Panaluwa, Padukka and 130 C, Pagoda Road, Pitakotte, Sri Lanka. This Publication is dedicated to the memory of late Dr. R. A. D. W. Bernard Randeniya, The Director, National Cancer Control Programme - 1988 - 1999.

FOREWORD

The present publication of "Cancer Incidence in Sri Lanka 1995" is the 5th in this series the first was published in 1990, enclosing the cancer registry data for the year 1985.

National Cancer Control Programme was established by the Ministry of Health with the assistance of the World Health Organization in 1980. However, till 1990 whatever statistics available on cancer was from the Epidemiology unit of the Ministry of Health, only in 1990 we were able to prepare the first cancer registry.

These registries consist of statistics obtained from three institutions where cancer patients are treated i.e. Cancer Institute Maharagama and Cancer Units attached to General Hospital Kandy and Teaching Hospital Galle. In these institutions cancer patients received both in - door and out-door treatment.

The present cancer registry publication provides the cancer incidence for the year 1995. It does not provide a community based cancer incidence. Its figures are obtained from three institutions mentioned above. This registry assumes a short fall of 10-20% of the actual population based cancer registry. However, this registry being prepared, periodically, certainly indicates the trend. It provides information regarding primary stie, sex, ethnic group etc. tec.

Mortality data in this volume were obtained from the Registrar General's Department, where official mortality data of the country, are maintained. Mortality data includes broad categories of the primary site, age specific mortality & crude death rates in various broad categories. However, it does not provide details regarding the primary locations of cancer because these secondary information may not be much accurate for primary locations as most registrars of deaths, who are primarily responsible for recording the cause of death, are non-medical persons.

In addition to tabulation of individual core data, this publication provides several important statistical measures such as age adjusted incidence rates for World Population and Population in Developing Countries, median age, lifetime risk etc., for each primary location of cancer.

For the first time, present volume attempts to provide the Cancer Survival probabilities. Though it does not cover all the deaths and follow-up information of all patients due to various practical reasons it would certainly be useful to make an assumption about the pattern of the cancer survival.

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Overall Cancer Incidence - 1995 by Age and Sex

Table 01

huj		MALE			FEMALE			TOTAL	
AGE	Cases	Population (*000)	Incidence	Cases	Population (*000)	Incidence	Cases	Population ('000)	Incidence
. < 5	48	1154	4.16	38	1112	3.42	86	2266	3.80
5 - 9	39	1045	3.73	38	1010	3.76	77	2055	3.75
10 - 14	45	1053	4.27	40	1010	3.96	85	2063	4.12
15 - 19	47	993	4.73	46	966	4.76	93	1959	4.75
20 - 24	57	936	6.09	71	939	7.56	128	1875	6.83
25 - 29	57	779	7.32	94	778	12.08	151	1557	9.70
30 - 34	92	696	13.22	128	679	18.85	220	1375	16.00
35 - 39	94	515	18.25	258	510	50.59	352	1025	34.34
40 - 44	195	439	44.42	337	413	81.60	532	852	62.44
45 - 49	274	377	72.68	476	367	129.70	750	744	100.81
50 - 54	388	348	111.49	499	311	160.45	887	659	134.60
55 - 59	398	272	146.32	401	245	163.67	799	517	154.55
60 - 64	513	224	229.02	472	192	245.83	985	416	236.78
65 - 69	473	163	290.18	464	145	320.00	937	308	304.22
70 - 74	389	119	326.89	282	102	276.47	671	221	303.62
75<=	341	133	256.39	231	121	190.91	572	254	225.20
Total	3450	9246	37,31	3875	8900	43.54	7325	18146	40.37

Statistics (1985-95)

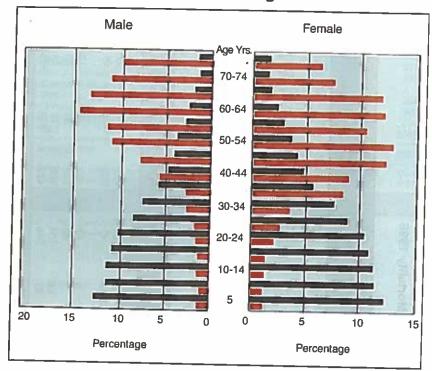
		1985			1990	139 - 27		1995	
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Cases Incidence	2564 31.7		5012 31.6		3084 37		3450 37.31	3875 43.54	7325 40.37

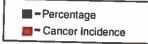
Incide	nce	Male	Female	Total
	Crude	37.31	43.54	40.37
	Adjusted to World Population	43.37	58.58	51.06
	Adjusted to Population in Developing Countries	37.22	49.25	43.19
	Estimated Life Time Risk	4.78%	6.03%	5.38%
Age	Mean	57	53	55
	Median	60	54	57
	Mode	65	65	65

Sources: Dept. of Census & Statistics, Registrar General's Dept., World Health Organization.

Note: 1. Sri Lanka Mid year Population 1995 (DCS + RAD) 2. World Standard Population 1995 (Who)

Cancer Vs Age





Cancer Mortality 1996

Mortality 1996 by Age

Age	Canoer	Total Deaths	Population ("000)	% Cancer of Total Deaths	Age Specific Cancer	Death Rate General
0 - 4	92		2292		0.03	0.87
5 - 14	136	1043	4164	13.04	0 03	0 0
15 - 24	151	1184	3865	12.75	0.00	0.62
25 - 44	808	6496	4863	12.44	0.17	1 2
45 - 64	2837	19347	2360	14.66	1 20	t Co
65 - 74	1534	13522	536	11.34	2.86	25.03
75+	739	10816	256	6.83	2.89	42.25
Total	6281	54410	18336	44 5.4	100	200

*Deaths excluding Accidents, Suicides, Homicides, Poisoning etc.

Cancer Deaths 1996 By Broad field of Disease and Age

The state of the s				Age	STATE OF THE PARTY OF	The second	THE REAL PROPERTY.	
Primary Site (Broad)	1	5-14	15-24	25-44	45-64	65-74	75+	Total
Oral	-	4	24	26	199	137	67	957
Digestive organs	7	-	'n	108	453	276	127	24
Respiratory & Intrathoracic Org.	4	-	9	47	285	138	į 2	543
Bones, Conective tissues +					;;	2	5	2
Skin & Breast	-	4	e	62	130	38	16	25.4
Genito Urinary Org.	-	ო	9	62	172	8 28	2 2	388
lymphatic & Hemotopoietic tissues	42	82	89	134	159	75	8 8	20.5
Unspecified	20	38	5	369	1439	788	374	3089
Total Cancer Deaths	92	136	151	808	2837	1534	739	6281

Cancer Deaths 1996 By Broad field of Disease and Sex

Primary Site (Broad)	Male	Age Female	Total
Oral	299	137	436
Digestive organs	497	480	977
Respiratory & Intrathoracic Org. Bones, Conective tissues +	375	168	543
Skin & Breast	27	227	254
Genito Urinary Org.	113	275	388
lymphatic & Hemotopoietic tissues	373	221	594
Unspecified	1654	1435	3089
Total Cancer Deaths	3338	2943	6281
Crude Death Rate: Cancer	0.36	0.33	0.34
Crude Death Rate all Diseases	3.69	2.22	2.97
	5.03	2.22	2.91
Cancer Deaths as a % of deaths due to all Diseases	9.68	14.77	11.54

Sources: Department of Census & Statistics Registrar General's Department

New Cancer Cases Diagnosed in 1995 - Broad Categories of Disease by Sex

	M	ALE	FEI	MALE	TO	TAL
PRIMARY SITE	Cases	Incidence	Cases	Incidence	Cases	Incidence
	1,016	10.99	389	4.37	1,405	7.74
ip Oral Cavity and Pharynx	640	6.93	630	7.08	1,270	7.00
Digestive System	581	6.28	101	1.13	682	3.76
Respiratory and intrathoracic organ	46	0.50	35	0.39	81	0.45
Bone and Articular Cartilage	59	0.64	43	0.48	102	0.56
Skin	27	0.29	28	0.31	55	0.30
Mesothelial and Soft Tissue	10	0.11	874	9.82	884	4.87
Breast	10,000	0.11	1,066	11.98	1,066	6.98
Female Genital Organs	-	2.16	1,000		200	1.10
Male Genital Organs	200	1.23	42	0.47	156	0.86
Urinary Tract	114		61	0.69	152	0.84
Eye, Brain & other parts of Central Nervous System	91	0.98	214	2.40	284	1.57
Thyroid & other Endocrine Glands	70	0.76		1.27	330	1.82
III Defined & Unspecified Sites	217	2.35	113	3.13	658	3.63
Lymphoid, Haematopoiet and Related Tissue	379	4.10	279	3.13	030	
TOTAL	3,450	37.31	3,875	43,54	7,325	40.37

Table 04

New Cancer Cases Diagnosed in 1995 - Broad Catagories of Disease by Age and Sex

Males																	
Category of Disease	Ş	5-9	9-14	15-19	20-24	25-29	30-34	35-39	40 - 44	45-49	50 - 54	55-59	99-09	69-59	70 - 74	75<=	Total
Lip Oral Cavity and Pharynx	1		4	2	5	5	7	20	45	73	126	130	171	154	128	145	1016
Bone and Articular Cartilage	3		5	5	3	2	2	3	3	3	3	3	4	1	2	4	46
Digestive system	3			1	1	5	13	16	39	54	84	73	93	91	72	69	614
Respiratory and Intrathoracic																	
Organs	2		1	1	3	3	6	10	28	62	85	78	106	94	63	39	581
Skin		2		1			1	1	3	7	7	4	9	11	6	7	59
Mesothelial and Soft Tissue	1			2	2	3	2	1	4		4	1	5	1	1		27
Breast				1					3	2	1		1		1	1	10
Male Genital Organs	1			3	5	5	10	10	В	10	12	14	26	30	39	27	200
Urinary Tract	10	4			4		3	1	3	7	5	14	19	23	14	7	114
Eye, Brain & Other Parts of																	
Central Nervous System		8	5	5	6	1	11	8	12	9	4	7	4	4	4	3	91
Thyroid & Other Endocrine Glands					4	5	11	4	7	6	5	6	6	5	8	3	70
III Defined & Unspecified Sites Lymphoid, Haematopoietic and	3	5	10	4	1	8	7	3	15	17	21	28	37	27	15	16	217
Related Tissue	24	20	20	22	22	20	17	16	24	22	29	38	30	31	30	14	379
Total	48	39	45	47	56	57	90	93	194	272	386	396	511	472	383	335	3424

Table 05

New Cancer Cases Diagnosed in 1995 - Broad Catagories of Disease by Age and Sex

Females

Category of Disease	\$	5-9	9-14	15-19	20-24	25-29	30-34	35-39	40 - 44	45-49	50-54	55-59	60 - 64	62-69	70 - 74	75 c=	Total
Lip Oral Cavity and Pharynx	1	1	1	3	8	5	6	12	15	34	45	47	56	63	48	44	389
Bone and Articular Cartilage	3	2	7	4	1	2	5	2	1	1	2		1	2		2	35
Digestive system	3	3		1	5	5	13	27	33	58	88	78	103	104	56	53	630
Respiratory and Intrathoracic																	
Organs				1	1		3	5	7	12	7	13	11	22	10	9	101
Skin			2				1		1	2	8	6	7	5	5	6	43
Mesothelial and Soft Tissue	1		1		1	2	1	1	2	1	4	4	6	2	1	1	28
Breast				3	3	21	31	84	141	150	130	87	78	76	37	33	874
Female Genital Organs	3	1	5	8	20	21	21	78	89	156	148	120	141	132	68	55	1066
Urinary Tract	8	5		1		1		1	2	1	3	3	6	3	4	4	42
Eye, Brain & Other Parts of																	
Central Nervous System	4	5	8	3	3	5	7	4	4	7	5		2	3		1	61
Thyroid & Other Endocrine Glands		1	1	6	17	17	21	17	18	17	23	12	20	16	18	10	214
III Defined & Unspecified Sites	5	6	2	2		3	4	4	6	13	13	13	12	14	11	5	113
Lymphoid, Haematopoietic and																	
Related Tissue	10	14	13	14	12	12	15	23	18	*24	23	18	29	22	24	8	279
Total	38	38	40	46	71	94	128	258	337	476	499	401	472	464	282	231	3875

Cancer Incidence - 1995: Broad Catagories of Disease by Ethnicity

ETHNICITY SINHALA TAMIL MOOR BURGHER OTHER TOTAL PRIMARY SITE Incidence Incidence Incidence Incidence Incidence Incidence IR(ETH) Cases IR(ETH) IR(ETH) Cases IR(ETH) Cases IR(ETH) Cases IR(ETH) Lip Oral Cavity and Pharynx 1085 8.1 241 1405 7.5 72 5.1 15.5 7.7 Bone and Articular Cartilage 69 0.5 3 0.2 0.4 0.3 81 Digestive system 1051 7.8 152 4.7 60 4.3 6 13.2 1.8 1270 7.00 Respiratory and Intrathoracic Organs 69 2.1 62 682 8.8 3.8 Skin 84 0.6 8 0.2 10 0.7 102 0.6 Mesothelial and Soft Tissue 44 0.3 5 0.2 6 0.4 55 0.3 Breast 752 5.6 71 2.2 58 4.1 2 1.8 884 49 Female Genital Organs 910 6.8 102 3.2 52 3.7 2 4.4 1066 5.9 Male Genital Organs 176 1.3 18 0.6 6 0.4 200 1.1 **Urinary Tract** 130 1.0 12 0.4 12 0.9 1 22 1 1.8 156 0.9 Eye, Brain & Other Parts of Central Nervous System 124 0.9 19 0.6 9 0.6 152 0.B Thyroid & Other Endocrine 255 284 Glands 1.9 10 0.3 18 1.3 1 2.2 1.6 III Defined & Unspecified 273 2.0 Sites 38 1.2 19 1.4 330 1.8 Lymphoid, Haematopoietic and Related Tissue 550 4.1 61 1.9 46 3.3 1 22 658 3.6 Total 6050 45.1 815 25.2 433 31.0 24 53.0 3 5.3 7325 40.4 Percentage 82 59 5.91 0.04 100.00 11.13 0.33 Total in Population ('000) 13413 3232 45 56 18146

Table 06

LIP ORAL CAVITY AND PHARYNX ICD: C 0 - 6, C 9 -14

	Male	Female	Total
Incidence Crude Adjusted to World Population Adjusted to Population in Developing Countries Estimated Life Time Risk	10.99 12.98 10.84 1.46%	4.38 6.38 5.07 0.62%	7.75 10.27 8.31 1.06%
Median Age	61	60	

Primary Site	C	1868	Inci	dence	AND DESCRIPTION OF THE PERSON NAMED IN	Age (Yr)
	Male	Female	Male	Female	Male	Female
	TO (17.75	Tari.	-	- The same	- ALS	
LIP ORAL CAVITY AND PHARYNX		-	20	0.00	00	60
Lip	89	a 28°	0:42	0,29	60	Market Street, San Street, Str
Tongue	51	15	0.55		- 61	56
Tongue Unsp	173	57	1.87	0.64	59	60
	71	40	0.77	0.45	63	61
Gum	12	P	0.45	0.12	51	61 60
Floor of the Mouth	Contract Contract	19	0.51	0.20	62	65
Palate / / /	54	and the same of		1,52	65	60
Mouth Unsp	337	140	3,84	AND PROPERTY.	- C - C - C - C - C - C - C - C - C - C	58
Tonsil	42	14	0:45	-0.16	58	100
Oropharynix	50	. 7	0.54	0.08	65	56
Nasopharynx Maria	25	14	0.27	0.16	50	39
	63	- 16	0.68	0.18	63	55
Pyriform Sinus	28	20	0.30	0.22	62	64
Hypopharynx Other & IH Diffined Sites	41	/ 10	0.44	0.11	58	59

LIP ORAL CAVITY AND PHARYNX	Male	1985 Female	e Total	Male I	1990 Female	Total		1995 emale	Total
Cases	1028		1323	1028	375	1403	1016	389	1405
Crude Incidence Rate	12.7		8.3	11.9	4.5	8.2	10.9	4.4	7.7

CAVITY AND BHABYNY

		3	1			A	AGE		13							
Site	\$>	6-5	10-14	12-02	52-52	₽E-0E	32-38	₽₽ = O₽	67-57	15,-05	65 - 55	19-09	69-59	7L-0L	=> \$L	Total
Lip																
Male					-	-	e		N	S	4	7	က	4	7	33
Female				7	2	N	-	-			N	9	ဇ	4	N	56
Total			7		e	e	4	-	23	S	9	13	9	8	6	65
Tongue									3	į			9	3	9	
Male								2	2	s	1	13	æ	2	9	21
Female						-	**		-	4	-	-	2		-	15
Total						-	-	2	3	6	8	14	13	2	7	99
Tongue Unsp																
Male				_		e	N	15	19	24	52	24	52	20	15	173
Female					e			ო	4	8	9	=	o	=	2	57
Total				_	3	B	S	18	23	32	31	35	34	31	17	230
Gum																
Male					-	-	2		2	3	6	15	=	10	12	71
Female				-			23	2	e	4	1	ı	4	9	9	40
Total				-	**	-	4	8	Ø	o	16	20	15	16	18	Ξ
Floor of the Mouth																
Male							23	-	4	0	B	9	7	4	2	42
Female							-		-	2	-	4	-		-	=
Total							n	-	2	12	6	10	e	4	9	53
Palate																
Mate			_		_		N	N	4	c)	2	14	c)	æ	7	54
Female							**	-	2		e	-	e	6	4	19
Total			_		_		3	က	9	9	8	15	8	11	=	73
Mouth Unsp					9	3	1		-		-	,	1	1	1	
Male					-	-			2	35	48	48	23	45	29	337
Female	-	,-		N		Ŋ	-	e	2	18	20	17	28	16	2	140
Total	1	-		S	-	c	0.7		31	20	68	65	87	61	88	477

					· viii		AGE					400				
Site	5>	6-5	10-14	61-51	77 - 07	62-52	\$6-86	PP - 0P	64-24	ÞS - 05	65 - 55	19-09	69-59	pL-0L	=>\$L	IntoT
Tonsil																
Male	á						Lu	2	9	6	8	9	9	9	က	42
Female							12		9	N	-	N	2	-	N	14
Total							2	6	6	=	က	8	80	7	9	26
Oropharynix									- 0	,	•	;	,			1
Male									0	9	9	=	13	4	0	8
Female									N 4	u	- 1	- 5	- 5	 u	a	- 0
IOIGI							50		*	0		4	1	0	0	ò
Nasopharynx Male			n	-	e		-	-	-	ო	4	က			က	52
Female			-	-	4			7	2		-	N				14
Total			4	2	7		-	3	3	e	ĸ,	2			က	39
Pyriform Sinus						,		•	•		,	1		,	9	
Male						-		N	5	10	9	12	6	13	80	8
Female							-	9	-	7	က	N	-	c	-	16
Total						_	-	2	က	12	6	4	0	15	6	79
Hypopharynx																
Male								-	2	4	2	9	9	4	N	28
Female									4	2	-	e	'n	e	N	8
Total							100	-	9	9	ဇ	6	=	7	4	48
Other & III Diffined Sites In																
the Lip, Oral Cavity and Pharynx	/ux															
Male	-							4	က	8	4	9	7	c)	N	41
Female								C	-	CV		**	-	-	Q	10
Totai	-						27	9	4	10	4	7	8	9	4	51
						l										

DIGESTIVE SYSTEM

ICD: C 7-8, C15 - 26

Incidence	Male	Female	Total
Crude	6.64	6.90	6.77
Adjusted to World Population	7.15	9.28	8.18
Adjusted to Population in Developing Countries	6.04	7.5	6.74
Estimated Life Time Risk	0.81%	1.01%	0.91%
Median Age	60	60	0.0170

	Male	remale	Incl	dence Female		Age (Yr) Female
DIGESTIVE SYSTEM	MALE	FEMALE		1		O.
Oesophagus	286	404	3.50	4.92	62	60
Stomach	80	32	0.87	0.36	56	51
Small Intestine	10	7 71	0.11	80.0	55	65
Colon	62	46	0.67	0.52	58	50
Rectosigmoid Junction	11	5	0.12	0.06	66	65
Rectum	75	62	0.81	0.70	56	62
Anus and Anal Canal	23	9-	0.25	0.10	63	59
Liver and Intrahepatic Bile Ducts	38	19 -	0.41	0.21	-61	50
Gallbladder	8	12	0.09	0.13	58	61
Other and Unsp Parts of Billary Tract	4	1	0.04	0.01	60	62
Pancrease	17	16	0.18	0.18	49	59
Parotid Gland Other & Unsp Major Salivary Gland	17 9	14	0.18 0.10	0.16 0.02	55 56	56 57

		1985			1990			1995	
DIGESTIVE SYSTEM	Male	Female	Total	Male	Female	Total	Male	Female	Total
Cases	381	368	749	492	448	940	640	630	1270
Crude Incidence Rate	4.7	4.7	4.7	5.7	5.4	5.5	6.93	7.08	7.00

DIGESTIVE SYSTEM

								Section.									
							AGE										
\$ 50	\$>	6-5	10-14	61 - 51	20-24	52 - 52	4E - 0E	95-25	pp - 0t	67 - ST	42 - 0S	65 - 55	Þ9 - 09	69 - 59	⊅ ∠=0∠	=> \$L	IntoT
Oesophagus Male Female Total							e - 4	6 t 3	3 23 55	31 32 63	98 88	33 58 91	46 73 119	44 66 110	36 42 78	45 37 82	286 404 690
Stomach Male Female Total			2 30				ខេត្ត	0 - 6	8 ← 6	4 9 0	17 9 26	10 13	17 5 22	5 2 5	7 1 8	O ← O	88 12 38
Small intestine Male Fernale Total	24										- +-	3 - 6		200	01 01		10 7 71
Colon Male Female Total						44	4 € 1	4 V E	9 - 7	7 8 15	စ စ ညီ	6 C =	450	11 6	1 7	461-	62 46 108
Rectosigmoid Junction Male Female Total												0	- + 2	OL CO. PO	0, 0,	е е	5 16
Rectum Male Female Total							- cv co	422	9 6 5	കസങ	13	9 7 7	14 4 5 5 5	7 9 16	11 6 71	2 O ST	75 62 137

Site	\$>	6-5	≯ 1−01	61-51	20 - 24	52 - 57	A +5 - 05	10000	77 - 07	67 - S7	ÞS - 0S	65 - 55	tg - 09	69 - 59	\$L = 0L	=> \$7	Total
Anus and Anal Canal Male Female Total										07 F E	ω ← 4	01-E	n n	460	m m	4 – ru	200
Liver and Intrahepatic Bile Ducts Male Female Total	Ducts 3							0	8-4	4 N	N C B	725	9 - 7	900	4 ← ro		38 19 57
Gailbladder Male Female Total										8	8 8	4 4	8	01014	− m 4		8 2 2 8
Other and Unsp, Parts of Billary Tract Male Female Total	Jillary Tr	ij											+= +=	0 <u>.</u> 0			4 to
Pancrease Male Female Total						82 83			01 01 4 1	4 4	ର ଘ ର	ผยเ	- rs @	− e 4		01 01	17 16 33
Other & III Deffined Digestive Organs Mate Femate Total	ive Organ	ē															
Parotid Gland Male Female Total		20 00		2	- 26		4 4				01 01	0	,,,,		425	& - 0	17 14 31
Other & Unsp Major Salivary Gland Male Female Total	ry Gland					:	ω n			0				0			921
														-			

Table 08

RESPIRATORY AND INTRATHORACIC ORGANS

ICD: C	C 30-39
--------	---------

1 116	Male	Female	Total
Incidence Crude Adjusted to World Population Adjusted to Population in Developing Countries Estimated Life Time Risk Median Age	6.28 7.42 6.30 0.92%	1.14 1.65 1.33 0.18% 60	3.76 4.90 4.05 0.57%

TORY AND	C	ases	Inci	dence	Median	Age (Yr)
RESPIRATORY AND	Male	Female	Male	Female	Male	Female
Į Ų				113.1		
Nasal Cavity and Middle Ear	10	3	0.11	0.03	50	68
Accessory Sinuses	17	7	0.18	80.0	56	70
Larynx	220	28	2.37	0.31	61	61
Trachea	1	= 1	0.01	0.01	70	64
Bronchus and Lung	330	= 60/	3.57	0.67	59	58
Thymus / Sali	1	= 10	0.01	0.01	27	45
Heart Mediastinum and Pleura	2	E.M	0.02	0.01	69	49

RESPIRATORY AND INTRATHORACIC ORGANS	A	1985	116	3	1990	SE	444	1995	
1	Male	Female	Total	Male	Female	Total	Male	Female	Total
	295	63	358	472	109	581	581	101	682

	ABIO	
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	200	
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	191	2
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	Cu	,

					1	-	AGE										
Sile		6-	71-	61-	17-0	2-29	65-2	**-0	67-5	75-0		65 - 5	19-0	69 - 9	pr - 0	*>9	lasc
	>				ш		ш	Н		П	Н		9	9	1	SL.	T
Nasal Cavity and Middle Ear																	
Mate								23	e	_	_			က	-		10
Female								- 1	36	2	-		-	-	2)	-	e
Total								2	e	_			-	4	-	-	13
Accessory Sinuses																	
Male	-					_		-	•	_	_	2	ღ		-	cu	17
Female						N. C.	_							2	N	2	7
Total	-					_		-	,	_	_	2	3	က	3	4	24
Larynx Male					_			3	×			9	4	98	24	22	220
Female												3	4	9	4	-	28
Total				_	_			3 8	25	33		36	48	42	28	23	248
Trachea																	
Female			*										-				-
Total													-		-		N
Bronchus and Lung				,													
Male	-		_	_	N +	_						9	23	23	33	15	99
Total	-		-	_	- ෆ	-	8 12 0	24	o 4		57 5	2 23	0 B	2 8	39	8	3 8
Тнутия																	
Male						_											-
Female										_							-
Total						-				_							N
Heart, Mediastinum and Pleura																	
Male														-	-		CJ
Female														,	,		- 0
lotal		l	١	١	1							ŀ		-	-		1

Table 09

BONE AND ARTICULAR CARTILAGE

ICD: C 40-41

Incidence	Male	Female	Total
O. I.	0.50	0.39	0.45
Crude Adjusted to World Population	0.53	0.42	0.48
Adjusted to Population in Developing Countries	0.49	0.40	0.45
Estimated Life Time Risk	0.04%	0.03%	0.04%
Median Age	40	25	AND SAIDS.

BONE AND ARTICULAR	Ca	ses	Inci	dence	Media	en Age
CARTILAGE	Male	Female	Male	Female	Male	Female
Limbs	26	22	0.28	0.25	27	30
Other and Unsp sites	20	13	0.22	0.15	51	18

Statistics

BONE AND ARTICULAR CARTILAGE	Male	1985 Female	Total	Male	1990 Female	Total		1995 Female	Total
Cases	48	43	91	61	43	104	46	35	81
Crude Incidence Rate	0.6	0.6	0.6	0.7	0.5	0.6	0.5	0.4	0.5

BONE AND ARTICULAR CARTILAGE

Bone and Articular Cartilage of Limbs Male Female Total Bone and Articular Cartilage of Other and Unsp sites					AGE										
inticular Cantilage of Limbs inticular Cartilage of Interposites		61-51	20-24		₽E − 0E	6E - 2E	tp - 0p	67-57	ps-0s	65-55	19-09	69 - 59	7L-0L	=> \$7	Total
	u)														
	S	40	n		2	cv	_	N		2	-	-	-	-	26
- ,	1 6	2	,-	_	4	_	,-		-		-	N		-	22
Bone and Articular Cartilage of Other and Unsp sites	1 11	7	4	_	9	9	N	N	-	2	73	0	-	N	48
C C															
Maie				2		_	CV	-	6	-	9		-	0	8
Female 3 1 1 2 1	1 1	2		_	-	_		-	,-					-	13
Total 6 1 1 2 3	1 1	2		n	,-	2	2	2	4	-	3		-	4	33

Table 10

SKIN

ICD: C 43 - 44

Incidence	Male	Female	Total
Ćrude	0.64	0.48	0.56
Adjusted to World Population	0.75	0.70	0.73
Adjusted to Population in Developing Countries	0.64	0.55	0.60
Estimated Life Time Risk	0.09%	0.07%	0.08
Median Age	- 60	60	west.

	Ca	ses	Incl	dence	Median	Age (Yr)
SKIN	Male	Female	Male	Female	Male	Female
DW A	12	6 7	0.13	0.07	56	64
Skin Other	47	37	0.48	0.35	61	60

		1985			1990			1995	
SKIN	Male	Female	Total	Male	Female	Total	Male	Female	Total
Cases	62	32	94	69	29	98	59	43	102
Crude Incidence Rate	0.7	0.4	0.6	0.8	0.3	0.6	0.6	0.5	0.6

				<	AGE									
Ste	\$ - 01 6 - \$ \$ >	61-51	20-24	52-52	≯E - 0E	95-39	67-57	p\$ - 0\$	65-55	19 - 09	69-59	PL-0L	=>5L	fstoT
ikin												-		
Male		-					2	2	2	-	N	2		12
Female						-		-		-	6			9
Total		-				-	2	9	2	2	2	2		18
Skin Other														
Male					_	2	10	S.	N	8	6	4	7	47
Female	2			_			2	7	9	9	2	S	9	37
Total	2					2	7	12	80	14	=	6	13	84

Table 11

MESOTHELIAL AND SOFT TISSUE

ICD: C 45 - 4

Incidence	Male	Female	Total
Crude	0.29	0.31	0.30
Adjusted to World Population	0.32	0.40	0.35
Adjusted to Population in Developing Countries	0.30	0.35	0.32
Estimated Life Time Risk	0.03%	0.05%	0.04%
Median Age	43	55	

MESOTHELIAL AND	Cas	Name of the last o	Incid	ence		Age (Yr)
SOFT TISSUE	Male	Female	Male	Female	Male	Female
Kaposis Sarcoma	1	1	0.01	0.01	60	56
Peripheral Nerves and Automatic Nerves System	1	1	0.01	0.01	31	4
Retroperitoneum and Peritoneum	2	4	0.02	0.04	40	55
Other Connective Soft Tissue	23	22	0.25	0.25	43	57

MESOTHELIAL		1985			1990			1995	
AND SOFT TISSUE	Male	Female	Total	Male	Female	Total	Male	Female	Tota
Cases	32	18	50	17	6	23	27	28	55
Crude Incidence Rate	0.4	0,2	0.3	0.2	0.1	0.1	0.3	0.3	0.3

MESOTHELIAL AND SOFT TISSUE

						3	Age				12					
Site	\$>	6-5	p1-01	61-51	\$Z-0Z	52-53	∌E - 0E	6E-2E	67 - S7 77 - O7	ÞS - 0S	65-55	19-09	69-59	*L-0L	=> \$1	Total
Kaposis Sarcoma Male Female Total		Į.												 		0
Peripheral Nerves and Automatic Nerves System Male Female 1	R	Ses	уstеп													6
Retroperitoneum and Peritoneum Male Female Total	E									0	NN					0.40
Other Connective Soft Tissue Make Female Total				20 20	8 8	004	0	440		6 6 9	0	4 9 0	- 00	6		23 4 45

Table 12

BREAST

ICD: C 50

Incidence	Male	Female	Total
Crude	0.11	9.83	4.87
Adjusted to World Population	0.13	12.82	6.02
Adjusted to Population in Developing Countries	0.11	11.07	5.27
Estimated Life Time Risk	0.01%	1.35%	0.65%
Median Age	47	50	

PREACT	Ca	ses	Incid	lence	Median	Age (Yr)
BREAST	Male	Female	Male	Female	Male	Female
Breast	10	874	0.11	9.82	47	50

Statistics

- The state of the		1985		PI.	1990	The Same	- ATK	1995	
BREAST .	Male	Female	Total	Male	Female	Total	Male	Female	Total
Cases	8	531	539	14	640	654	10	874	884
Crude Incidence Rate	0.1	8.8	3.4	0.1	7.7	3.8	0.1	9.8	4.9

10 874 884 Total 33 =>51 38 \$L-0L 69-59 76 19-09 78 79 65-55 87 PS - 05 130 2 55 1 152 23 67-57 3 84 141 84 144 **-0* 6E-SE 30-34 \$ 31 52-52 21 20-24 60 61-51 -64 10-14 6-5 5> Site

BREAST

Table 13

FEMALE GENITAL ORGANS

ICD: C 51 - 58

Incidence	Male	Female	Total
Crude	134	11.99	5.88
Adjusted to World Population	6.15	.= 16.16	7.37
Adjusted to Population in Developing Countries	5 7	13.58	6.31
Estimated Life Time Risk		1.75%	0.83%
Median Age	20	54	

FEMALE GENITAL ORGANS	Cases Male Female	Incidence Male Female	Median Age (Yr) Male Female
Nutre 1	17	0.19	72
Vagina	32	0.36	60
CervixUteri	≥ 588	6.61	55
Corpus Uteri	66	0.74	53
Uterus, Part Unsp	23	0.26	49
Ovary	326	3.66	53
Other and unspecified Female G	entalOrgans 4	0.04	59
Placenta	10	0.11	31

Statistics

	1			4				
FEMALE GENITAL ORGANS	1985		131	1990			1995	
18/5/8	Male Female	Total	Male	Female	Total	Male	Female	Total
Cases	708	708		849	849		1066	1066
Crude Incidence Rate	9,1	45		10.1	50		12.0	5.9

69-59 19-09 65-55 PS-05 6t-St 77-07 6E-SE \$ tE-0E 72-53 20-24 61-51 10-14 6-5 5> Other and Unspecified Female Genital Organs Female Uterus, Part Unsp Female Site Corpus Uteri Female Cervix Uteri Female Ovary Female Vagina Female

Total

=>54

10-74

FEMALE GENITAL ORGANS

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N

Table 14

MALE GENITAL ORGANS	ICD: C 60 -63

Incidence	Male	Female	Total
Crude	2.16		1.10
Adjusted to World Population	2.54		1.46
Adjusted to Population in Developing Countries	2.14		0.18
Estimated Life Time Risk	0.24%		0.13%
Median Age	64		
1	- Contraction	- M	

MALE GENITAL	Case	s Incid	lence	Median	Age (Yr)
ORGANS	Male	Female Male	Female	Male	Female
Penis	65	0.70	1	56	-1
Prostate	96	1.04	cr 55	70	3
Testis	37	0.40		35	
Other and Unspecifie Male Genital Organs	- 4	0.02		47	

Statistics

MALE GENITAL	1	1985			1990			1995
ORGANS	Male F	emale	Total	Male	Female	Total	Male	Female Total
Cases	111	4	111	103	17	103	200	200
Crude Incidence Rate	1.4		0.7	1.2	1 4	0.6	22	1.1

						7	Age			1							F
Site	\$>	6-5	10-14	61-51	20-24	67 - 57	30 - 34	6E-2E	pp - 0p	67-57	pS-08	65-55	19-09	69-59	t1-01	=> \$1	Total
Penis Male				_			4	4	S	^	7	80	6	80	9	9	65
Prostate Male											4	9	15	21	8	19	96
Testis Maie	-			-	5	ıo	9	9	ဗ	23	-		0	77.	ო	-	37
Other and Unspecified Male Genital Organs Male				_												-	22

MALE GENITAL ORGANS

URINARY TRACT ICD: C 64-68

Table 15

Incidence	Male	Female	Total
Crude	1.23	0.47	0.86
Adjusted to World Population	143	0,61	1.08
Adjusted to Population in Developing Countries	1.24	0.52	0.92
Estimated Life Time Risk	0.17	0.05	0.11
Median Age	62	53	1

URINARY TRACT	Ca	ises	Incl	dence	Median	Age(Yr)
URINARY TRACT	Male	Female	Male	Female	Male	Female
Kidney, except Renal Pelvis	32.	20	0.35	0.22	48	22
Ureter	7	3	0.08	0.03	4	4
Bladder Other and Unspecified	75	18.	0.80	0.20	63	63
Urinary Organs	,	131 1		0.01		76

URINARY TRACT	Male	1985 Female	Total	Male	1990 Female	Total	Male	1995 Female	Total
Cases	67	16	83	78	37	115	114	42	156
Crude Incidence Rate	0.8	0.2	0.5	0.9	0.4	0.7	1.2	0.5	0.9

							Age	_									F
Site	\$>	6-5	10-14	61-51	20-24	52-53	₽E - 0E	65-25	pp - 0p	6p-Sp	PS - 05	65-55	19-09	69 - 59	PL-0L	=> \$L	Total
Kidney, except Renal Pelvis	0			21													
Male	2	-			2		2		2	2	-	3	-	7	6		32
Female	2	4		-		-		-	-	-		N	-	CI	-		20
Total	10	2		-	N	-	8	-	9	9	-	υ	2	đ	4		52
Uretar																	
Male	4	2			-												7
Female	2										-						9
Total	9	Ŋ			-						-						0
Bladder																	
Male	-	-			-		-	,	-	2	4	=	18	16	Ξ	7	75
Female	-	-							-		7	-	2	-	6	e	18
Total	8	2			-		•	-	N	2	9	12	g	17	14	0	93
nspecified U	rinary Organs	9															
Male																,	
Total																	
iolai																-	•

Table 16

EYE, BRAIN & OTHER PARTS OF CENTRAL NERVOUS SYSTEM ICD: C 70-72

Incidence	Male	Female	Total
Crude	0.98	0.69	0.84
Adjusted to World Population	1.09	0.73	0.93
Adjusted to Population in Developing Countries	1.02	0.71	0.87
Estimated Life Time: Risk	0.09%	0.06%	0.08%
Median Age	40	30	

EYE, BRAIN & OTHER PARTS OF CENTRAL NERVOUS SYSTEM	Male	ases Female	Inc Male	idence Female	Median Male	Age (Yr) Female
Eye and Adnexa	2 3	2	Q.03	0,02	53	2"
Meninges	3		0.03	27 77	49	
Brain	80	54	0.87	0.61	38	32
Spinal Courd, Cranial/Nerva and Oth Parts of Central Ner		5	0.05	0.06	60	26

EYE, BRAIN & OTHER PARTS OF CENTRAL NERVOUS SYSTEM	1985			1990			1995	
1	Male Female	Total	Male	Female	Total	Male	Female	Total
Cases Crude Incidence Rate	45, 33 0.6 0.4	76 0.5	83 0 9	41 0 5	124 07	91 1 0	61 0.7	152 08

EYE, BRAIN & OTHER PARTS OF CENTRAL NERVOUS SYSTEM

							Age										
Site	\$>	6-5	10-14	61-51	70 - 54	62-52	₹-0€	6E - SE	77 - 07	67-57	PS-05	65-55	t9 - 09	69-59	7L - OL	=> SL	Total
Eye and Adnexa									+		-				. 🕶		ო
Female Total	0 0								-		-				-		OI PO
Meninges Male							-			-							က
Fernale Total							_			-							ო
Brain Male Comple	-	80 4 0	κnα	וט ני	φα	← 4	0 6	∠ 4	0 4	8 9	ы 4	7	01 02	ი ი	~	e -	8 %
Total		. E	. E	. ~	00			=	4	4	7	7	4	9	7	4	134
Spinal Coard, Cranlal Nerves and Other Parts of Central Nervous Sys	_ ×.							-	,-				N	-			လ
Female	-			-		-				-	-		,				ı,
Total	-			-		_		-	-	-	-		7	-			01

Table 17

THYROID & OTHER ENDOCRINE GLANDS

ICD:	C	73	-	7
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Incidence	Male	Female	Total
Crude Adjusted to World Population Adjusted to Population in Developing Countries Estimated Life Time Risk Median Age	0.76 0.86 0.78 0.08% 47	2.41 3.04 2.64 0.27% 47	1.67 1.87 1.60 0.179

THYROID & OTHER	Ct	ses			Median A	
ENDOCRINE GLANDS	Male	Female	Male	Female	Male	Female
Thyroid Gland	66	211	0.71	2.37	45	47
Adrenal Gland	2		0.02	0.01	62	39
Other Endocrine Glands and	Related					11
Structures	2	2	0.02	0.02	52	71

thyroid & Other Endocf Glands	RINE	1985			1990			1995	
	Male	Feptale	Total	Male	Female	Total	Male	Female	Total
Cases	43	06	105	64	165	229 1.3	70 0.8	214	284 1.6
Crude Incidence Ra	ite 0.5	1,4	0.9	0.7	2.0	1.3	0.0		

YROID & OTHER ENDOCRINE GLANDS

THYROID & ULAER ENDOCHINE SERVED		1					-	1			3					
			18			Age										
Site	6-S	10-14	61-51	20-24	62 - 52	7E-0E	6E-SE	vv = 0v	67-57	42-02	65-55	19-09	69 - 59	tr - 01	=>5L	Total
Thyroid Gland Male Female Total			99	4 71 212	2 + 2	25 = 2	4 9 8	7 pg 25	23 7 6	B B №	o 51 &	9 2 9g	5 15 20	7 17 24	£ 5 £	66 211 277
Adrenal Gland Male Female Total										-						01 - 10
Other Endocrine Glands and Related Structures Male Female Total	lated Stu	uctur	S.							0 0						004

Table 18 LYMPHOID, HAEMATOPOIETIC AND RELATED TISSUE ICD: C 81-96

Incidence	Male	Female	Total
Crude	4.10	3.14	3.63
Adjusted to World Population	4.48	3.88	4.21
Adjusted to Population in Developing Countries	4.21	3.43	3.79
Estimated Life Time Risk	0.42%	0.35%	0.39%
Median Age	45	47	A Trus

LYMPHOID,	Cas	es	Incl	dence	Median	Age(Yr)
HAEMATOPOIETIC AND RELATED TISSUE	Male	Female	Male	Female	Male	Female
Hodgkin's Disease	42	17	0.45	0.19	27	39
Follicular Non-hodgkin's Lymphoma	4	5	0.04	0.06	31	60
Diffuse Non-hodgkin's Lymphoma Peripheral and Cutaneous	10	6	0.11	0.07	53	55
T-cell Lymphomas Other & Unspecified types of	3	1	0.03	0.01	47	53
Non-hodgkin's Lymphoma	100	56	1.08	0.63	52	54
Multiple Myeloma	52	50	0.56	0.56	62	59
Lymphoid Leukaemia	60	45	0.65	0.51	30	21
Myeloid Leukaemia	105	94	1.14	1.06	33	35
Monocytic Leukaemia Leukaemias of Unspecified		2		0.02		42
Cell Types Other & Unspecified Lymphoid Haematopoletic and	12	1	0.01	0.01	54	49
Related Tissues	2	2	0.02	0.02	61	63

LYMPHOID, HAEMATOPOIETIC AND RELATED TISSUE		1985			1990			1995	
120 C 1500	Male	Female	Total	Male	Female	Total	Male	Female	Total
Cases	196	117	313	337	234	571	379	279	658
Crude Incidence Rate	2.4	1.5	2.0	3.9	28	3.4	4.1	3.1	3.6

							Age										
Site	5>	6-5	pt - 0t	61-51	70-54	52-53	₱E - 0E	65-55	pp - 0p	67-57	ps-05	65-55	19-09	69-59	\$L-0L	=> \$L	Total
Hodgkin's Disease																	
Mafe	-	e	4	9	4	4	e	-	2		4	2	က	2	2	-	42
Female	-			N		က		6		N	-		-	-	ဗ		17
Total	2	n	4	8	4	7	9	4	2	8	2	2	4	က	9	-	59
Follicular Non-hodgkin's Lymphoma	оша																
Male				8					_				-				4
Female						+-					-		-	-	-		S
Total				23		-			-		-		2	-	-		o
Diffuse Non-hodgkin's Lymphoma	na																
Male			-	-			-			-		-	-		0	-	10
Female									-		2	-	-		-		9
Total			-	_			-	-	-	-	2	Ŋ	8		9	-	16
Peripheral and Cutaneous T-cell Lymphomas	Lymp	hom	35														
Mafe									-	-			-				e
Female											-						-
Total										-	-		-				4
Other & Unspecified types of Non-hodgkin's Lymphoma	bot-ho	lgkin'	s Lyn	phon	9												
Male	-	2	e	4	7	4	N	10	6	6	8	14	12	8	9	9	6
Female				-	-		S	7	e	9	co	9	2	æ	2	N	8
Total	-	N	က	S	8	4	7	12	2	15	13	8	19	16	=	8	156
Multiple Myeloma	ě		,				9		3	9	ì	9	9				
Male	-		-				-	N	N	-	-	6	9	=	12	2	25
Female							N	-	9	9	8	9	9	6	9	က	20
Total	-		-				3	က	8	4	15	15	6	20	18	2	102
Lymphoid Leukaemia																	
Male	s	LO.	-	4	7	8	2	••	က	4	9	2	-	ເກ	n		9
Female	က	4	1	1	2	N	-	4	4	,-	N	-	e		-		45
Total	В	6	æ	=	12	9	9	2	7	c)	8	က	4	S	4		105

							A	30									
Site	2	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 - 54	55 - 59	19-09	69-59	70-74	75 c =	Total
Myeloid Leukaemia										11							
Male	16	10	10	5	4	4	5	6	6	6	3	9	8	4	5	4	105
Female	6	10	6	5	6	6	6	8	6	6 10	3	3	10	9	5 7		94
Total	22	20	16	9	6	6 10	5 6 11	6 8 14	10	16	3 6	9 3 12	18	6	12	3	199
Monocytic Leukaemia																	
Male																	
Female							1			1							2
Total							1			1							2
Leukaemias of Unspecified	Cell Type	s															
Male	(66)										1						•
Female										1	•						- 1
Total										1	1						2
Other& Unspecified Lymph	old.																
Haematopoletic and Relate																	
Male												1		1			2
Female												i		1			2
Total												2		2			7

Table 19

ILL DEFINED & UNSPECIFIED SITES

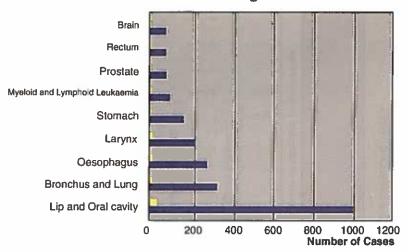
ILL DEFINED & UNSPECIFIE	Dallea											C	76-80	- 1			
							Ag	a	T.				V S	T. Te			
Site	2	5-9	10-14	15-19	20 - 24	25-29	30-34	35-39	40 - 44	45 - 49	50-54	55 - 59	19-09	69-69	70 - 74	75<=	Total
Malignant Neoplasm of Othe	r and III-	define	d Site	es	***												
Male Female Total	2 5 7	1 2 3	6 1 7	1 1 2		3 1 4	1 3	1 1 2	1 3	4 3 7	5 4 9	5 3 8	8 4 12	7 4 11	3 4 7	7	57 35 92
Secondary and Unspecified of Lymph Nodes	Malignan	t Neo	plasn	n													
Male	1	4	4	2	1	2			7	4		4	4	3	3	2	41
Female		4 B	1 5	1 3			1	2	7	4 2 6	2	1	5	3 2 5	3 3 6	2	22
Total	1	В	5	3	1	2	1	2	7	6	2	5	5	5	6	4	63
Secondary Malignant Neopla Respiratory and Digestive O	asm of rgans																
Male						1		1	1	4	6 3 9	5 2 7	5	1	3	2	29
Female							2	1 2	2	4	3	2	5 1 6	1 2 3	3	2	15
Total						1	2	2	3	4	9	7	6	3	3	4	44
Secondary Neoplasm of Oth	er Sites																
Male				1			1			1	3	4	8	2	1		21
Female										3		2 6	8 1 9				6
Total				1			1			4	3	6	9	2	1		27
Without Specification of Site	,																
Male						2	4	1	5	4	7	10	12	14	5	5	69
Female						2 4			5	5	4	5	5	6	4	1	35
Total						4	4	1	8	9	11	15	17	20	9	6	104

LEADING CANCER SITES 1995

Leading Cancer Sites: Male

Site	No. of Cases	Percentage
Lip and Oral Cavity	1016	29.45
Bronchus and Lung	330	9.57
Oesophagus	286	8.29
Larynx	220	6.38
Myeloid and Lymphoid Leukaemia	165	4.78
Prostate	96	2.78
Stomach	80	2.32
Brain	80	2.32
Rectum	75	2.17
All Other Sites		31.94

Leading Sites: Male

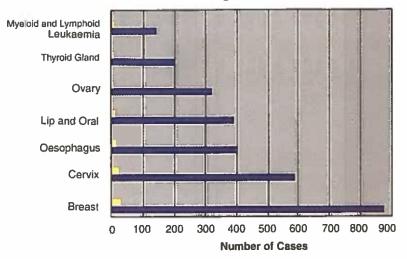


LEADING CANCER SITES 1995

Leading Cancer Sites: Female

Site	No. of Cases	Percentage
Breast	874	22.55
Cervix	588	15.17
Oesophagus	404	10.48
Lip and Oral Cavity	389	10.04
Ovary	326	8.41
Thyroid Gland	211	5.44
Myeloid and Lymphoid Leukaemia	139	3.59
All Other Sites		24.31

Leading Sites: Female



		Male	Fe	male	To	otal	Mid Year	Incidence
Province/District	No. of Casas	Percentage	No. of Gases	Percentage	No, of Cases	Percentage	Population (*000)	1
Western Province	1265	36.67%	1569	40.49%	2834	38.69%	4662	60 79
Colombo	806	23.36%	1047	27.02%	1853	25.30%	2097	88.36
Gampaha	273	7.91%	324	8.36%	597	B.15%	1587	37.62
Kalutara	186	5.39%	198	5.11%	384	5.24%	978	39.26
Southern Province	567	16.43%	629	16.23%	1196	16.33%	2369	50.49
Galle	302	8.75%	335	8.65%	637	8.70%	999	63.76
Matara	176	5.10%	196	5.06%	372	5.08%	826	45.04
Hambantota	89	2.58%	98	2.53%	187	2.55%	544	34.38
Uva Province	129	3.74%	150	3.87%	279	3.81%	1127	24.76
Monaragala	26	0.75%	32	0.83%	58	0.79%	379	15.30
Badulla	103	2.99%	118	3.05%	221	3.02%	748	29.55
Sabaragamuwa Province	318	9.22%	328	8.46%	646	8.82%	1757	36.77
Ratnapura	174	5.04%	205	5.29%	379	5.17%	988	38.36
Kegalle	144	4.17%	123	3.17%	267	3.65%	769	34.72
Central Province	529	15.33%	564	14.55%	1093	14.92%	2282	47.90
Kandy	373	10.81%	392	10.12%	765	10.44%	1298	58.94
Nuwara-Eliya	82	2.38%	95	2.45%	177	2.42%	440	40.23
Matale	74	2.14%	77	1.99%	151	2.06%	544	27.76
North-Western Province	280	8.12%	260	6.71%	540	7.37%	2138	25.26
Kurunegala	200	5.80%	181	4.67%	381	5.20%	1500	25.40
Puttalam	80	2.32%	79	2.04%	159	2.17%	638	24.92
North-Central Province	159	4.61%	172	4.44%	331	4.52%	1107	29.90
Anuradhapura	98	2.84%	112	2.89%	210	2.87%	767	27.38
Polonnaruwa	61	1.77%	60	1.55%	121	1.65%	340	35.59

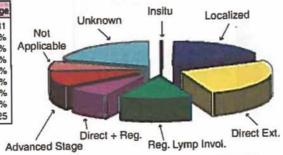
		Male	Fe	male	To	tal	Mid Year	Incidence
Province/District	No. of Cases	Percentage	No, of Gases	Percentage	No. of Cases	Percentage	Population (*000)	
Eastern Province	144	4.17%	119	3.07%	263	3.59%	1326	19.83
Trincomalee	30	0.87%	25	0.65%	55	0.75%	336	16.37
Batticalloa	61	1.77%	37	0.95%	98	1.341	453	21.63
Ampara	53	1.54%	57	1.47%	110	1.50%	537	20.48
Northern Province	59	1.71%	84	2.17%	143	1.95%	1378	10.38
Vavuniya	16	0.46%	29	0.75%	45	0.61%	121	37.19
Mullaitivu			3	0.08%	3	0.04%	102	2.94
Kilinochchi	5	0.14%	5	0.13%	10	0.14%	116	8.62
Mannar	4	0.12%	9	0.23%	13	0.18%	134	9.70
Jaffna	34	0.99%	38	0.98%	72	0.98%	905	7.96
Total	3450	100.00%	3875	100.00%	7325	100.00%	18146	40.47

Note: Provisional Estimated Mid Year Population based on the "Demographic Survey 1994", Department of Census and Statistics.

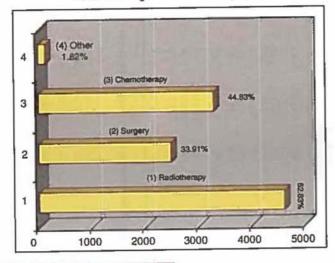
Table 23

CLINICAL STAGE OF TUMOUR BEFORE TREATMENT

Stage	No.	Percentage
insitu		31
Localized	1320	18.02%
Direc Ext.	1900	25.94%
Reg Lymp Invol.	969	13.23%
Direct + Reg	557	7.60%
Advanced Stages	724	9.88%
Not Applicable	425	5.80%
Un Known	1399	19.10%
Total		7325



TREATMENT



Method of Treatment	No.	Percentage
(1) Radiotherapy	4602	62.83%
(2) Surgery	2484	33.91%
(3) Chemotherapy	3284	44.83%
(4) Other	133	1.82%
Combined Treatments		
(1) + (2)	889	12.14%
(1) + (3)	1098	14.99%
(2) + (3)	589	8.04%
(1) + (2) + (3)	671	9.16%

Lates	Caneorad	Danthe		Dariere o	Dariod of Sunday (Mouths)	(Monthe)	
	namenon		45	24	30	48	9
Cav			1		3	}	
	3193	257	06.0	0.85	0.81	0.78	0.78
Female	3660	215	0.95	0.91	0.88	0.84	0.78
Total	6853	472	0.93	0.88	0.85	0.82	0.78
Age and Sex							
0-14	221	27					
			0.88	0.82	0.79	0.79	0.79
Female			0.94	0.88	0.79	0.79	0.72
15-29	333	38					
Male			0.87	0.78	69.0	0.69	0.69
Female			0.93	0.88	0.88	0.88	0.58
30-44	1028	76					
Male			0.88	0.82	0.80	0.68	0.68
Female			0.95	06.0	0.90	0.85	0.85
45-59	2264	172					
Mafe			0.88	0.84	0.82	0.77	0.77
Female			0.95	0.91	0.85	0.81	0.71
+09	3007	158					
Male			0.91	0.87	0.82	0.82	0.82
Female			0.95	0.94	0.91	0.86	0.86

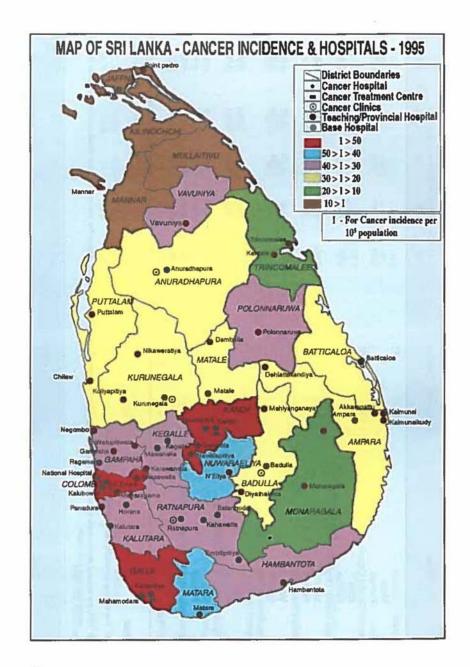
Level	Censored		Period of Survival (Months)				
Lavor	3200200		12	24	36	48	60
thnicity and Sex							
Sinhala	5664	386		0.05	0.01	0.79	0.79
Male			0.89	0.85	0.81	0.79	0.78
Female		11.000	0.95	0.92	0.89	0.65	0.70
amil	758	57	0.01	0.81	0.81	0.81	0.80
Male			0.91	0.89	0.82	0.74	0.74
Female			0.92	0.69	0.02	0.74	0.74
Moor	406	27	0.91	0.84	0.84	0.70	0.70
Male			0.93	0.89	0.89	0.89	0.66
Female			0.93	0.03	0.03	0.03	0.00
Disease and Sex							
ip Oral Cavity and Pharynx	1405	55		572352247	Contract		0.90
Male			0.93	0.93	0.92	0.90	0.60
Female			0.96	0.95	0.90	0.90	0.60
Bone and Articular Cartilage	78	3		5000	0.00		0.00
Male			0.98	0.98	0.98	0.98	0.98
Female			1.00	0.86	0.86	0.86	0.60
Ni Contra	1184	86					
Digestive System Male	1104		0.88	0.80	0.75	0.75	0.75
Female			0.91	0.89	0.87	0.83	0.83
	623	59					10.00
Respiratory and Intrathoracic Organ Male		12.51	0.86	0.80	0.73	0.67	0.67
Female			0.80	0.75	0.75	0.75	0.75
Skin	101	1	UNIVERSAL CO.	***		0.00	0.98
Male			0.98	0.98	0.98	0.98	2000
Female			1.00	1.00	1.00	1.00	1.00
Mesothelial and Sottlissue	53	2			4.00	1.00	1.00
Male			1.00	1.00	1.00	1.00	0.81
Female			0.93	0.81	0.81	0.81	0.01

Level	Censored	Deaths	Period of Survival (Months)				
			12	24	36	48	60
Breast	843	41					-,,
Male							
Female			0.98	0.95	0.91	0.87	0.75
Female Genital Organs	1005	61					
Male							
Female			0.95	0.90	0.87	0.86	0.86
Male Genital Organs	188	12					
Male			0.92	0.90	0.87	0.87	0.87
Female							
Urinary Tract		144	12				
Male			0.87	0.87	0.76	0.62	0.62
Female .			0.94	0.94	0.94	0.94	0.94
Eye, Brain & Other parts of							
Central Nervous System	144	В					
Male			0.90	0.90	0.90	0.90	0.90
Female			0.93	0.93	0.93	0.93	0.93
Thyroid & Other Endocrine Glands	279	5					
Male			0.94	0.88	0.88	0.88	0.88
Female			0.99	0.99	0.99	0.99	0.99
Lymphoid, Haematopoiet and Related Tissue	545	113	0.80	0.65	09.60	0.58	0.58
Female			0.89	0.80	0.75	0.67	0.60
Total		6132	465				

Note:

⁽¹⁾ The survival provability based on Kaplan-Meire method.

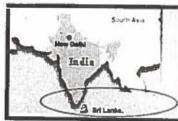
⁽²⁾ Only the hospital deaths were accounted for calculations. The actual deaths would be many folded, therefore the real survival rates would certainly be lesser than the reates indicated in this table.



Appendix I

GEOGRAPHY AND DEMOGRAPHY OF SRI LANKA

Sri Lanka or Ceylon as it was known for many centuries is an island located in the center of the Indian Ocean and in the vicinity of southern tip of the Indian sub continent approximately on Northern latitudes 5° to 9° and Eastern longitudes 70° to 80°.



Area

The island extends in the N-S direction to 445 km and maximum breath is 225.3 km. The total land area is 65,610 km² which includes about 982 km² of inland waters. One lifth of the total land area of 6.56 million hectares is forest and forest reserves and about quarter of the land has already been used for agriculture purposes.

Climate

The climatic condition of Sri Lanka is effected by its proximity to the equator and the monsoons. These conditions slightly differ from hill country to low country. The mean temperature ranges from 14° C to 24° C in hill country and from 26° C to 28° C in other parts. The hill country receives sufficient rain and rest of the island maintains tropical climate with less than 200 cm of annual rainfall.

Population

According to the last census held in 1981, the reported population was 14.85 million and this comprise four major ethnic groups namely Sinhala, Tamil, Moor and Burgher by 74.5%, 18.1%, 7.1% and 0.3% respectively. The reported sex percentage in relation to female was 48.5% and the distribution of population among urban, rural and estate areas were 21.5%, 72.2% and 6.3% respectively. The estimated population for 1995 was approximately 18.14 million.

Economy

The country's economy has been liberalized since 1977 which resulted to expand the economic activities. Per capita income for 1995 was about US \$ 710. In formation of the GDP in 1995 Agriculture and Manufacturing sectors contributed 23.0% and 15.7% respectively while the economic growth rate was at 5.5%.

Vital Statistics

The Literacy Rate of Sri Lanka exceeds 90.0% and is an one of the best in the South Asia region. The last census in 1981 reported that life expectation at birth for males and females are 67.8 and 71.7 years respectively. The vital statistics in 1995 indicates that the Crude Birth and Death Rates are 18.9 and 5.8 per every 1,000 persons respectively. The Fertility Rate is about 85 per 1,000 females aged 15-49 years while the Population Growth Rate at 1.4%. The infant mortality rate for the year was about 16.5 per 1,000 population.

Appendix II

Statistical Terminology

Incidence

The term incidence is defined as the ratio of number of patients developing a particular disease and the average population at risk for a specific time period. Normally this is expressed as per 100,000 population.

Mortality

The term mortality is defined as the ratio of number of deaths due to a particular disease and the average population for a specific time period at a given geographical area. Normally this is expressed as per 1,000 population.

Standardization

The basic idea in use of standardization is that allowing the adjustment for discrepancies in age structures between the standard population and a special population. This volume considers two standard populations the World Population and the Population of Developing Countries.

Life Time Risk

The life time risk is defined as the probability of developing a particular disease during the life time of a person living in a specific community.

The measure of life time risk included in this volume are subject to assumption of life expectation at birth of Sri Lanka population is 70 years.

Calculations

The methods of some important calculations included in this volume are,

1. Crude Rate

is calculated by dividing the total number of cases encountered in the year with the estimated mid year population at risk.

2. Age-specific Incidence Rate

is calculated by dividing the number of cases in each five year age groups with the estimated mid year population at risk of the corresponding age groups.

3. Age-Specific Death Rate

is calculated by dividing the number of deaths reported in a specific age group with the total number of deaths of the population reported in the corresponding age group.

4. Standardized Incidence Rate

can be regarded as a weighted mean of age-specific incidence of Sri Lanka population, using the percentage of each age interval of the age structure of the standard population.

5. Life Time Risk (Percentage Cumulative Incidence Rate)

Cumulative Incidence Rate (CIR) is the sum of the incidences of each and every single age groups. When it expressed as a percentage, CIR can be used as a good estimate for life time risk. In this publication CIR is calculated over the interval of 0-70 years. Selection of the 0-70 age interval is due to Sri Lanka's actuarial life expectancy which is close to 70 years in both males and females and beyond this interval detection of cancers in the extremely elder cases which are often found incidentally or after death and which are little relevance to the health of the people.

Appendix III

Cancer Topography Codes ICD - 10

Malignant Neoplasms

- C-00 Lip
- C-01 Tongue
- C-02 Tongue Unsp.
- C-03 Gum
- C-04 Floor of the Mouth
- C-05 Palate
- C-06 Mouth Unsp.
- C-07 Parotid Gland
- C-08 Other & Unsp Major Salivary Gland
- C-09 Tonsil
- C-10 Oropharynx
- C-11 Nasopharynx
- C-12 Pyriform Sinus
- C-13 Hypopharynx
- C-14 Other & III Diffined Sites in the Lip, Oral Cavity and Pharynx
- C-15 Oesophagus
- C-16 Stomach
- C-17 Small Intestine
- C-18 Colon
- C-19 Rectosigmoid Junction
- C-20 Rectum
- C-21 Anus and Anal Canal
- C-22 Liver and intrahepatic Bile Ducts
- C-23 Gallbladder
- C-24 Other and Unsp. Parts of Billary Tract
- C-25 Pancrease
- C-26' Other and III Defined Digestive Organs
- C-30 Nasal Cavity and Middle Ear
- C-31 Accessory Sinuses
- C-32 Larynx
- C-33 Trachea
- C-34 Bronchus and Lung
- C-37 Thymus
- C-38 Heart, Mediastinum and Pleura
- C-39 Other and III-defined Sites in the Respiratory System and Intrathracic Org.
- C-40 Bone and Articular Cartilage of Limbs
- C-41 Bone and Articular Cartilage of Other and Unsp. sites
- C-43 Skin
- C-44 Skin Other
- C-45 Mesothelioma
- C-46 Kaposis Sarcoma
- C-47 Peripheral Nerves and Automatic Nerves System
- C-48 Retroperitoneum and Peritoneum

- C-49 Other Connective Soft Tissue
- C-50 Breast
- C-51 Vulva
- C-52 Vagina
- C-53 Cervix Uteri
- C-54 Corpus Uteri
- C-55 Uterus, Part Unsp
- C-56 Ovary
- C-57 Other and Unspecified Female Genital Organs
- C.58 Placenta
- C-60 Penis
- C-61 Prostate
- C-62 Testis
- C-63 Other and Unspecified Male Genital Organs
- C-64 Kidney, except Renal Pelvis
- C-65 Renal Pelvis
- C-66 Ureter
- C-67 Bladder
- C-68 Other and Unspecified Urinary Organs
- C-69 Eye and Adnexa
- C-70 Meninges
- C-71 Brain
- C-72 Spinal Coard, Cranial Nerves ant Other Parts of Central Nervous Sys.
- C-73 Thyroid Gland
- C-74 Adrenal Gland
- C-75 Other Endocrine Glands and Related Structures
- C-76 Malignant Neoplasm of Other and III-defined Sites
- C-77 Secondary and Unspecified Malignant Neoplasm of Lymph Nodes
- C-78 Secondary Malignant Neoplasm of Respiratory and Digestive Organs
- C-79 Secondary Neoplasm of Other Sites
- C-80 Without Specification of Site
- C-81 Hodgkin's Disease
- C-82 Follicular Non-hodgkin's Lymphoma
- C-83 Diffuse Non-hodgkin's Lymphoma
- C-84 Peripheral and Cutaneous T-cell Lymphomas
- C-85 Other & Unspecified types of Non-hodgkin's Lymphoma
- C-88 Immunoproliferative Diseases
- C-90 Multiple Myeloma
- C-91 Lymphoid Leukaemia
- C-92 Myeloid Leukaemia
- C-93 Monocytic Leukaemia
- C-94 Other Leukaemias of Specified Cell Types
- C-95 Leukaeias of unspecified Cell Types
- C-96 Other & Unsecified Lymphoid, Haematopoietic and Related Tissue
- C-97 Independent (primary) Multiple Sites.

Appendix IV

List of References

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CANCER INCIDENCE 1995 SRI LANKA



NATIONAL CANCER CONTROL PROGRAMME

CANCER INSTITUTE MAHARAGAMA SRI LANKA